

# **EXHIBIT C**



Fujitsu Microelectronics America, Inc.

## **Fujitsu Introduces Next-Generation FlexRay™ Controller, Enabling X-by-Wire Technology for In-Vehicle Networks**

*Built around Bosch IP, New MB88121 Supports FlexRay Version 2.0*

**Sunnyvale, CA, September 13, 2005** — Fujitsu Microelectronics America, Inc. (FMA) today introduced the industry's leading FlexRay™ controller, the MB88121, an application-specific standard product that supports FlexRay version 2.0.

Based on IP developed by Robert Bosch GmbH, the MB88121 delivers 10 Megabit per second over two channels. It provides fault-tolerant, deterministic data transmission, which is suitable for the engine control, braking and steering subsystems now being introduced using the FlexRay protocol.

The MB88121 is designed to complement all of the existing standard automotive buses, including the Controller Area Network (CAN) and Local Interconnect Network (LIN). FlexRay-based technology, which can provide approximately 10 times the throughput of CAN, is expected to gradually replace CAN as automakers and their suppliers adopt x-by-wire solutions in new generations of vehicles.

Fujitsu has been a world leader in FlexRay product development, as a member of the FlexRay Consortium, and as the first company to deliver a complete developers' kit designed to enable early-stage application development.

"This new FlexRay communication controller incorporates all the features and capabilities required to spur significant production of FlexRay systems by vehicle makers and automotive-equipment manufacturers," said Keith Horn, senior vice president of sales and marketing for Fujitsu Microelectronics America.

"Embedding FlexRay IP into real silicon will allow early adapters to design a range of automotive electronic-control applications at production grade."

The MB88121 can be connected directly to existing CPUs, enabling the development of production systems that use a next-generation network, while simultaneously maximizing the performance of equipment already in the vehicle. Internal speeds reach 80MHz, with a 4, 5, 8, 10MHz external oscillator, or by external clock. The chip's parallel interface affords a maximum frequency of 33MHz.

### **About the FlexRay Standard**

FlexRay is a high-speed serial communication system using point-to-point links over unshielded or shielded twisted pair cable. It features fault tolerance and provides deterministic data transmission at a baud rate of between 500kbps to 10Mbps with a 24-bit CRC. FlexRay is a time-triggered bus, enabling electronic systems to communicate continually in pre-defined time slots.

Fujitsu will maintain its strong commitment to the FlexRay technology by continuing to develop FlexRay enabled components. In 2006, the company plans to begin sampling a new microcontroller with the FlexRay IP built around Fujitsu's FR microprocessor core.

### **Pricing and Availability**

The MB88121 is available now in production quantities with prices beginning under \$5 each. It is packaged in an LQFP-64. Fujitsu is now planning a 48-pin version for future release.

### **Note to editors:**

[Click here to download the Fujitsu FlexRay ASSP product fact sheet](#)

[Click here to download JPEG file of the Fujitsu FlexRay ASSP product photo #1](#)


### **About Fujitsu Microelectronics America, Inc.**

Fujitsu Microelectronics America, Inc. (FMA) leads the industry in innovation. FMA provides high-quality, reliable semiconductor products and services for the networking, communications, automotive, security and other markets throughout North and South America. For product information, visit the company web site at <http://us.fujitsu.com/micro/mcu>.

## **Press Contacts**

**Emi Igarashi**


**Fujitsu Microelectronics America, Inc.**

 Tel: 408-737-5647

 E-mail: eigarash@fma.fujitsu.com

**Dick Davies**

**IPRA**

 Tel: 415-777-4161

 E-mail: ipra@mindspring.com



Fujitsu Microelectronics Asia Pte Ltd

## Fujitsu Introduces Controller-Area-Network (CAN) Microcontroller for Automotive Applications

**Singapore, 8 July 2004** — Fujitsu Microelectronics Asia Pte Ltd, one of the major players in the Microelectronics and Flat Panel Display Industry today announced the launch of 16bit Microcontroller series with built-in CAN micro, at the Thailand Electronics and Industrial Technology Exhibition 2004.

Fujitsu has been responding to the ever changing demands for the automotive engineering network with leading edge technologies. Automotive is one of the many focuses that Fujitsu has excelled in. Since Fujitsu had first introduced Microcontrollers with built-in CAN macro in the mid 1990s, Fujitsu has been expanding its 16bit Microcontroller series and has now some of the most extensive range of Microcontrollers with CAN Macro built-in. For the high-end automotive application, Fujitsu has also a range of specialized 32bit Microcontrollers which are feature-rich, low-power, high-performance and cost-effective.

Since the introduction of CAN in the automotive industries, CAN is now one of the most widely accepted network within the vehicles. Over the years, industries such as Factory Automation and Healthcare have also adopted this type of network for the reason that CAN has sophisticated functions to support error detection. It is very reliable, robust in communication, has simplified two-wire communication and uses differential voltage of two-wire to reduce noise. CAN specially stands out in the automotive application as the two-wire communication means reduction in cost for the network within the vehicle, lighter in weight (lesser wirings), much more simplified wire-harness design and equipment used within the vehicle.

The Fujitsu CAN Controller is a full CAN Macro that supports 'CAN Version 2.0B Active'. It means that it can support Identifier of up to 29bit instead of the normal 11bit of a Basic CAN. The Fujitsu CAN also has multiple-message buffer of up to 16 transmitting messages. With the 16bit Microcontroller, it comes with enhanced features such as low-power consumption mode, stepper motor controller, input-capture units, output-compare unit and many timers to support the different applications.

### Some of the series suitable for different applications

Dashboard :	MB90390 series MB90420 series MB90540 series MB90590 series
Gateways :	MB90495 series MB90540 series MB90590 series
Power Seats :	MB90385 series MB90495 series MB90590 series MB91360 series
Car Infotainment System :	MB90390 series
HVAC system :	MB90440 series MB90540 series
Power Window :	MB90385 series MB90495 series
Steering Wheel :	MB90385 series MB90495 series
Instrumental Cluster :	MB90390 series MB90440 series

	MB90540 series
	MB90440 series
	MB91302 series
	MB91360 series

### About Fujitsu Microelectronics Asia Pte Ltd

Fujitsu Microelectronics Asia Pte Ltd was established as the Asia –Pacific Headquarters of Fujitsu Limited Electronic Devices Group in 1986. It provides support, sales and marketing of Microelectronics and Flat Panel Display products to the Asia Pacific region, including India and Oceania.


Fujitsu Microelectronics Asia offers a wide and varied product range like ASIC, ASSPs, Flat Panels (LCD / PDP), Microcontrollers / Microprocessors (FR-V), System Memory (Flash Memory / FRAM / FCRAM) and System LSIs ( DVD MPEG Source Decoders / MPEG –2 Encoders)

### Press Contacts


**Ms Gladys Ng**

**Fujitsu Microelectronics Asia Pte Ltd**

Marketing Communications

 Tel: (65) 6281 0770

**Website:** [www.fmal.fujitsu.com](http://www.fmal.fujitsu.com)

 E-mail: [sg.enquiry@fmal.fujitsu.com](mailto:sg.enquiry@fmal.fujitsu.com)

### Technical Contacts

**Mr Lou Kai Chee**

**Fujitsu Microelectronics Asia Pte Ltd**

System LSI Product Marketing

 E-mail: [kaichee.lou@@fmal.fujitsu.com](mailto:kaichee.lou@@fmal.fujitsu.com)

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# **EXHIBIT D**

## Fujitsu's MCUs are known for their reliability, making them ideal for automobiles

### "Faster, Cooler, Smarter"

Microcontroller (MCU) applications in consumer and industrial products continue to grow rapidly. Users demand faster, "cooler" and smarter performance from their audio-visual equipment and household appliances. Luxury vehicles now use as many as 80 MCUs, while mid-range models use 40 to 50. Fujitsu's 8-bit, 16-bit and 32-bit MCU families are appropriate for all these applications.

### CAN Support

([HTTP://EDEVICE.FUJITSU.COM/FJ/MARCOM/FIND/20-4E/PDF/02.PDF](http://EDEVICE.FUJITSU.COM/FJ/MARCOM/FIND/20-4E/PDF/02.PDF))

High-end CAN applications now require large amounts of program memory. With 768KB of embedded flash memory, the MB91F376 is perfectly suited for automotive instrumentation applications and embedded industrial applications with CAN.

The MB90340/90345 is a "best-in-class" series of 16-bit MCUs providing rich timing sets, a multi-channel Programmable Pulse Generator, multiple Universal Asynchronous Receiver/Transmitters (UARTs), I<sup>2</sup>C and CAN interfaces.

### LIN Support

([HTTP://WWW.FMA.FUJITSU.COM/PDF/DOC\\_IP\\_214.PDF](http://WWW.FMA.FUJITSU.COM/PDF/DOC_IP_214.PDF))

The MB89210 series of F<sup>2</sup>MC controllers includes UART capabilities that support the Local Interconnect Network (LIN). Fujitsu's MB89210 8-bit series is designed for applications where key requirements are an embedded LIN, a fail-proof internal oscillator for backup in case of an external resonator failure, a wide operation voltage range for power-supply stability, and a small 30-pin SSOP package. This device is also suitable for simple household equipment.

### Smooth, Smart Motor Control

([HTTP://WWW.FMA.FUJITSU.COM/PDF/MCU\\_FR60.PDF](http://WWW.FMA.FUJITSU.COM/PDF/MCU_FR60.PDF))

The MB91260 series is just one example of Fujitsu's MCUs that integrate the industry's fastest triple-channel A/D converter with a dedicated waveform generator for smooth and smarter motor control. This series is ideal for intelligent air conditioners, smart dishwashers and other applications using motors.

### The World's First Embedded Dual-Operation Flash MCU

([HTTP://WWW.FMA.FUJITSU.COM/PDF/DOC\\_IP\\_MB90890.PDF](http://WWW.FMA.FUJITSU.COM/PDF/DOC_IP_MB90890.PDF))

Fujitsu has developed the world's first embedded dual-operation Flash MCU. Dual operation means that a read operation can be executed on one bank while a write operation is executed on another. This is ideal for applications that require reprogramming in the field and could eliminate external memory requirements, such as EEPROM. Another benefit is that uninterrupted operations can be performed on one bank, while the other bank is in programming mode using the Embedded Algorithm.

### Small to Large: a Perfect Fit for Embedded Applications

Fujitsu's best-in-class, small, 16-bit microcontroller has a 7x7 mm body, 0.5 mm pitch and 48 pins, making it appropriate for a wide range of applications. The three series, the MB90455, MB90385 and MB90890 (which is the world's first dual-operation Flash memory MCU), have pin-to-pin compatibility. Customers can choose from mask ROM or Flash, with either CAN interface support or simple MCU.

For complicated applications that require a large memory, the 32-bit FR RISC MCU family has 768KB embedded Flash and the 16-bit CISC F<sup>2</sup>MC 16LX family has 384KB embedded Flash.

Pin count support is up to 100 pins for 8-bit, 144 pins for 16-bit, and 208 pins for 32-bit MCUs.

### Faster Controller with Sweet Features

Fujitsu's new 32-bit FR60Lite MCU family is designed to meet the requirements of the latest consumer product applications. The family is also suited for automotive-equipment control systems that require safer, quieter, more customer-friendly performance.

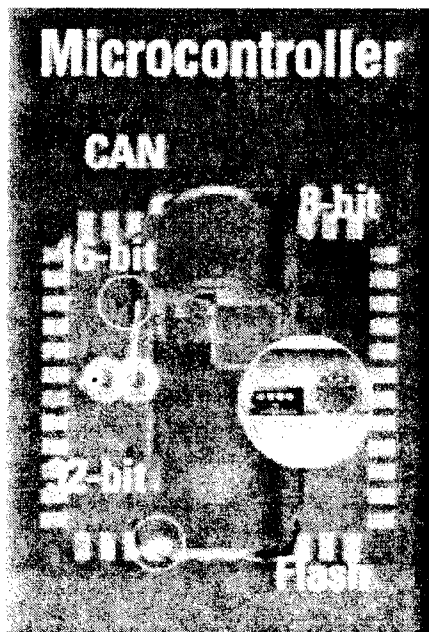
For more information, or to order a free DVD visit

<http://www.fma.fujitsu.com/micro/>

• LIN

• CAN 2.0B

• 8/16/32-bit MCU



## Automotive Network Overview

The automotive network consists of more than a dozen networks that cohesively connect to perform various automotive functions. Since its start in 1985, the automotive network has come to encompass the automotive-body LAN, power-train LAN and information LAN. Today, the network utilizes many key technologies including CAN, LIN, TTx, D2B, MOST and Flexray to support a comfortable, even luxurious car life.

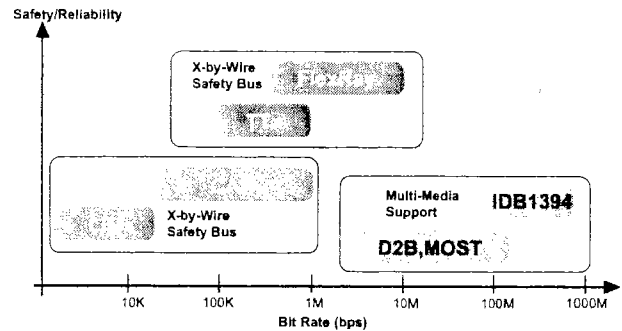
## CAN (Controller Area Network)

The CAN was standardized by the Robert Bosch GmbH Company during the 1980s. Since then, several automotive manufacturers have adopted it for automotive-body LANs and power-train LANs. CAN was originally designed solely for motor-vehicle use. Today, because of its high dependability and reliability, CAN is attracting a great deal of attention from various industrial fields.

## Fujitsu CAN Controller

Fujitsu's family of F<sup>2</sup>MC-16LX and 32-bit FR CAN serves the entire CAN spectrum for automotive and industrial applications. The family includes a wide range of single, double and triple CAN controllers from a small, 48-pin configuration to 208-pin devices with up to 768KB of on-chip Flash memory. All devices support CAN 2.0A and 2.0B standards, and have up to 16 message buffers, each individually programmable for transmit or receive functions. These features make F<sup>2</sup>MC-16LX and FR devices ideal for automotive customers.

## Automotive Network



### Roof Area:

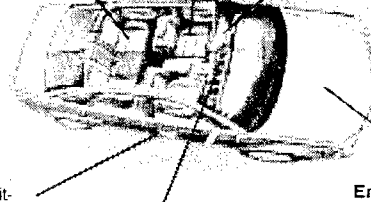
e.g. Rain Sensor, Light Sensor, F/C/R Room Light, Sun Roof Control, Garage Control, Info Display, Rear Climate Control

### Seat Area:

e.g. Seat-positioning Control, Occupancy Sensor, HVAC

### Steering Wheel Area:

Centralized Control Function, e.g. Cruise Control, Wiper, Lighting, Climate, Audio, Telephone



### Door Area:

e.g. Window U/D and Unit-Pinch Control, Mirror Control, Seat Adjustment, Door Lock

### Climate Panel:

e.g. User I/F, Motor Control, Duet Control, Moisture/Temp Sensors, etc.

### Engine Room:

e.g. Fan Control, Lighting Control, Intelligent Fuse and Maintenance Indicator, etc.

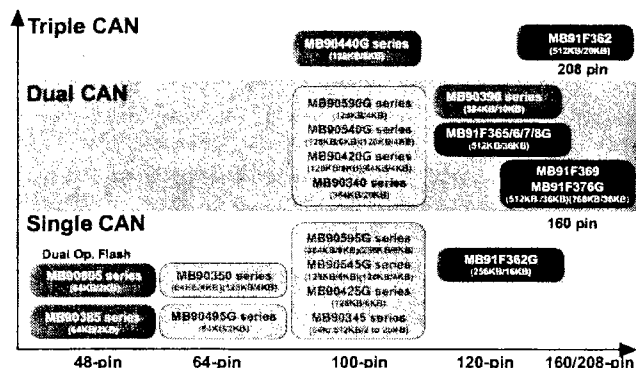
Operation	MB90385 Series	MB90895 Series	MB90495G Series	MB90350 Series	MB90340 Series	MB90420/425 Series	MB90540/545 Series	MB90590/595 Series	MB90390 Series	MB90400G Series	MB91360 Series
CAN	1ch	1ch	1ch	1ch	2ch/1ch	2ch/1ch	2ch/1ch	2ch/1ch	2ch	3ch	3ch/2ch
CAN Function	CAN 2.0B Full										
Buffer	8 (R/T)			16 (R/T)							
Transfer speed	Max. 1 Mbps										
ID filter	29-bit x 2										
Interrupt	2 x number of CAN channels										
Min. execution Time	62.5 ns			42 ns		62.5 ns		42 ns		62.5 ns	15.6 ns
Operation Voltage	3.5 to 5.5V		4.5 to 5.5V	3.5 to 5.5V		4.5 to 5.5V	3.5 to 5.5V	4.5 to 5.5V	3.5 to 5.5V	3.5 to 5.5V	4.25 to 5.25V
ROM/RAM Size	64KB/2KB			128KB/4KB	64KB/2KB 128KB/6KB 256KB/16KB 512KB/20KB	128KB/6KB	540: 128KB/6KB 545: 64KB/2KB 128KB/4KB 256KB/6/8KB	590: 256KB/6KB 384KB/8KB 595: 128KB/4KB	384KB/10KB	28/6KB 128KB/16KB	512KB/36KB 512KB/20KB
No. of clock system	2/1 clock										
SMC				4 ch		4 ch		6 ch		4 ch	
PPG timer	8-bit x 4 ch, 16-bit x 2 ch			8-bit x 12 ch 16-bit x 6 ch	8/16-bit x 8 ch	16-bit x 3 ch	8/16-bit x 4 ch	8/16-bit x 6ch	8/16-bit x 6 ch	8/16-bit x 4 ch	16-bit x 8 ch / 16-bit x 4 ch
16 bit timer	2 ch			4 ch		2 ch		6 ch		6 ch / 3 ch	
ICU	4 ch			6 ch	8 ch	4 ch	8 ch	6 ch / 4 ch	6 ch	8 ch	4 ch
OCU				4 ch	8 ch		4 ch	6 ch / 4 ch	8 ch	4 ch	4 ch / 2 ch
UART	1 ch	2 ch		2 ch	4 ch	2 ch	2 ch	3 ch / 2 ch	3 ch	2 ch	3 ch, 2 ch
SIO	1 ch				2 ch			1 ch	1 ch	1 ch	2 ch
IIC											1 ch
I/O Port	34	49		49	80	58	78		96	81	
D/A converter											
A/D converter	10-bit x 8 ch			10-bit x 15 ch	10-bit x 24 ch	10-bit x 8 ch					
Interrupt	4 ch			8 ch	16 ch	8 ch					
Package	LQFP-48		QFP-64 LQFP-64	LQFP-64	QFP-100, LQFP-100				LQFP-120	QFP-100 LQFP-100	QFP-160 QFP-208 QFP-120



## Fujitsu CAN MCU Offering

Fujitsu recognizes the challenges faced by automotive engineers. Fujitsu's MCU expertise, combined with the products' rich feature set and unbelievable CPU performance, make Fujitsu's MCUs suitable for body-electronics network and power-train network applications. Fujitsu's stepper motor MCUs feature up to six stepper motor controllers in a single MCU, making them ideal for dashboard applications. Automotive body control requires CAN MCUs with large I/O and high current capability. These needs can be met by a wide range of 16- and 32-bit CAN MCUs.

## CAN MCU Line-up



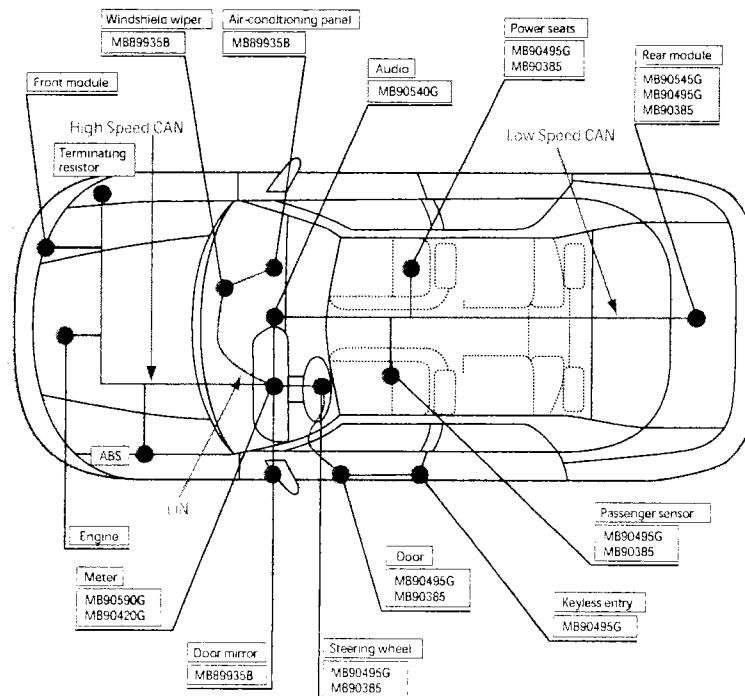
LIN (Local Interconnect Network)

The concept of a low-cost, reliable network is not new to the automotive industry. Continuing this trend, the lower-cost LIN system finds its place in the distributed electronic systems in vehicles. LIN enables a cost-effective communication system for smart sensors and actuators where the bandwidth and versatility of CAN are not required. Typical LIN applications include doors, seats, the steering wheel, climate regulation system, lighting and rain sensor.

### Application Example

Each high-end car is networked with more than 30 MCUs, which are connected to the common CAN network. Not all CAN networks have same requirements. For example, body-control networks, which deal with passenger comfort and convenience systems, run at lower speeds (between 125Kbps to 250Kbps). Fujitsu's small, 48-pin, 16-bit MB90385, single-CAN MCU with eight message buffers is appropriate for this application.

In contrast, power-train networks, which periodically pass critical information related to engine and transmission control, run at relatively higher speeds (250Kbps to 1Mbps). Fujitsu's new high-performance MB90340 series meets this challenge. The series utilizes a wide range of memory selection with single and dual CAN controllers, giving designers of high- and low-speed CAN network applications a great deal of flexibility.



## FUJITSU MICROELECTRONICS AMERICA, INC.

Corporate Headquarters  
1250 E. Arques Avenue, Sunnyvale, California 94088-3470  
Tel: (800) 866-8608 Fax: (408) 737-5999  
E-mail: [inquiry@fma.fujitsu.com](mailto:inquiry@fma.fujitsu.com) Web Site: <http://www.fma.fujitsu.com>

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# **EXHIBIT E**

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RAUDEL RUBIO  
MAGNITUDE ELECTRONICS LLC  
870 MAHLER ROAD

BURLINGAME, CA 94010  
UNITED STATES US

Ship Date: 16JAN07  
ActWgt: 0.2 LB  
System#: 0608905/CAFE2308  
Account: S 183127098

EIN/VAT:

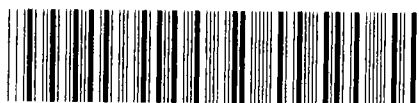
21459375201

TO JOSEPH  
TEKER TORRES &TEKER PC  
130 ASPINALL AVENUE  
SUITE 2A  
HAGATNA, 96910

**FedEx**  
Express

(GU)

AWB



TRK# 6619 6833 6307 Form  
0430

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INTL PRIORITY PAK

REF:  
DESC1: INTEGRATED CIRCUITS  
DESC2:  
DESC3:  
DESC4:  
EEI: NO EEI 30.37 (a)

COUNTRY MFG: JP  
CARRIAGE VALUE: 0.00 USD  
CUSTOM VALUE: 50.00 USD

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T/C: R 318544085  
D/T: R 318544085

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VERBAL	PPD VISA	JL	1/16/2007	FEDX-INTL-PTY	ORIGIN
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085	(57882) MB91F362PFV, FUJI 2000, QFP	2	25.00	50.00	
Freight	JAPAN - EAR99 - NLR 1 BOX, 1 LB		0.00	0.00	
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VERBAL	PPD VISA	JL	1/16/2007	FEDX-INTL-PTY	ORIGIN
ITEM	DESCRIPTION	QUANTITY	UNIT AMT	AMOUNT	
085	(57882) MB91F362PFV, FUJI 2000, QFP	2	25.00	50.00	
Freight	JAPAN - EAR99 - NLR 1 BOX, 1 LB		0.00	0.00	
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	TRACKING # 6619 6833 6307				
			Sales Tax (0.0%) \$0.00		
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VERBAL	PPD VISA	JL	1/16/2007	FEDX-INTL-PTY	ORIGIN
ITEM	DESCRIPTION	QUANTITY	UNIT AMT	AMOUNT	
085	(57882) MB91F362PFV, FUJI 2000, QFP JAPAN - EAR99 - NLR 1 BOX, 1 LB	2	25.00	50.00	
Freight	FREIGHT COLLECT ACCT # 3185 4408 5  TRACKING # 6619 6833 6307		0.00	0.00	

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